

## Advanced High Efficiency Durable DACS Thruster, Phase I

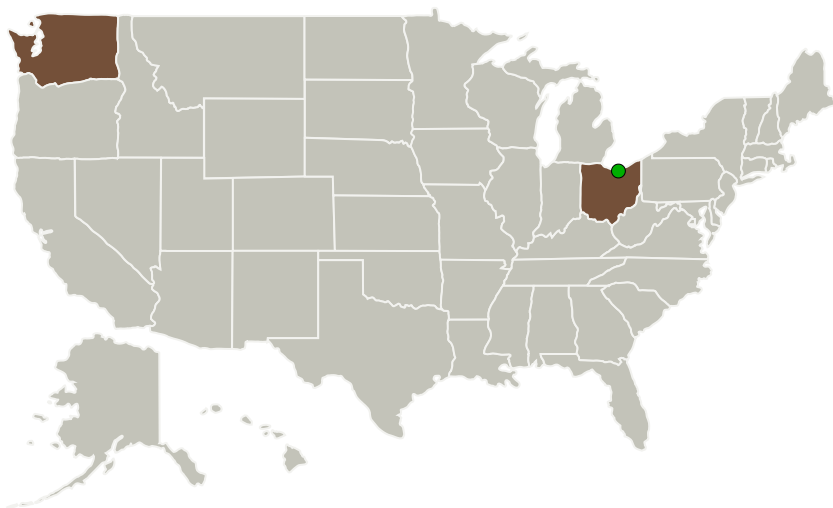
Completed Technology Project (2012 - 2012)



## Project Introduction

Systima is developing a high performance 25 lbf DACS thruster that operates with a novel non-toxic monopropellant. The monopropellant has a 30% higher density-specific impulse compared to hydrazine and is commercially available off-the-shelf. In Phase I Systima will focus on development of the propellant feed and injection system, and In Phase II these systems will be integrated into a complete thruster design. The Phase II work plan includes a system demonstrate with propellant in a workhorse thruster.

## Primary U.S. Work Locations and Key Partners



Advanced High Efficiency  
Durable DACS Thruster, Phase I

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Organizations Performing Work	Role	Type	Location
Systima Technologies, Inc.	Lead Organization	Industry	Kirkland, Washington
● Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio

## Primary U.S. Work Locations

Ohio	Washington
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## Project Transitions

 **February 2012:** Project Start

 **August 2012:** Closed out

### Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/137960>)

## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Organization:

Systima Technologies, Inc.

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

### Program Director:

Jason L Kessler

### Program Manager:

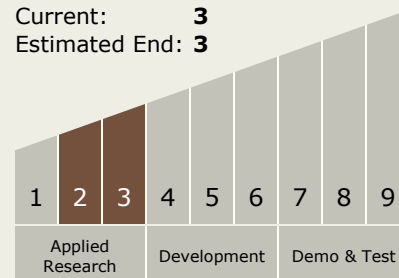
Carlos Torrez

### Principal Investigator:

Stephanie Sawhill

## Technology Maturity (TRL)

Start: 2  
Current: 3  
Estimated End: 3



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## Technology Areas

### Primary:

- TX01 Propulsion Systems
  - └ TX01.1 Chemical Space Propulsion
    - └ TX01.1.2 Earth Storable

## Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System